WORKSHEET

Science on Saturday

Crossing the Blood Brain Barrier: One byte at a time

Video Link: Crossing the Blood Brain Barrier: One l	byte at a time
Presenters: Tim Carpenter, Nicholas Be – LLNL Sc Dan Burns - Science Teacher – Los Gat	
Student Lecture Notes:	
1. What do they call flashlights in England?	
2. What does a tight junction do?	
3. What does the term "hydrophobic" m	nean?
4. The 3 ways to determine drug permea	ability are In Silico, In Vitro, and
5. Draw a line to match the drug permea	ability method to the best correct description.
Drug Permeability Method	Description
In Silico	Most Expensive
In Vitro	Fastest
In Vivo	Most Accurate
6. What are Molecular Dynamics Simul	ations similar to?
7. What is Newton's Second Law?	
8. How many calculations must be done	to model 25,000 atoms on a computer?
9. What is an "In Vitro Assay"?	
10. According to the graph, how do the results of "in silico" modelling of permeability compare to the results of "in vitro" experiments?	